**General**

|  |  |
| --- | --- |
| help | kubectl --help *or* kubectl -h |
| version | kubectl version |
| settings | kubectl config view |
| List of contexts | kubectl config get-contexts |
| List of users | kubectl config view -o jsonpath='{.users[\*].name}' |

**Namespaces**

|  |  |
| --- | --- |
| help | kubectl get ns -h *or* kubectl get ns --help |
| get | kubectl get ns -o yaml *or* kubectl get ns --output=yaml |
| describe | kubectl describe ns |

**Pods**

|  |  |
| --- | --- |
| help | kubectl get svc -h *or* kubectl get svc --help |
|  |  |

**Nodes**

|  |  |
| --- | --- |
| help | kubectl get no -h *or* kubectl get no -h  *or*  kubectl get svc --help *or* kubectl get services --help |
|  |  |

**Deployments**

|  |  |
| --- | --- |
| help | kubectl get deploy -h *or* kubectl get deploy --help |
|  |  |

**Services**

|  |  |
| --- | --- |
| help | kubectl get svc -h *or* kubectl get svc --help |
|  |  |

**DaemonSets**

|  |  |
| --- | --- |
| help | kubectl get ds -h *or* kubectl get ds --help |
|  |  |

**Events**

|  |  |
| --- | --- |
| help | kubectl get events -h *or* kubectl get events --help |
|  |  |

**Logs**

|  |  |
| --- | --- |
| help | kubectl get logs -h *or* kubectl get logs --help |
|  |  |

**Service Accounts**

|  |  |
| --- | --- |
| help | kubectl get sa -h *or* kubectl get sa --help |
|  |  |

**ReplicaSets**

|  |  |
| --- | --- |
| help | kubectl get rs -h *or* kubectl get rs --help |
|  |  |

**Roles**

|  |  |
| --- | --- |
| help | kubectl get roles -h *or* kubectl get roles --help |
|  |  |

**ConfigMaps**

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| --- | --- |
| help | kubectl get cm -h *or* kubectl get cm --help |
|  |  |

**Ingress**

|  |  |
| --- | --- |
| help | kubectl get ing -h *or* kubectl get ing --help |
|  |  |

**Persistent Volume**

|  |  |
| --- | --- |
| help | kubectl get pv -h *or* kubectl get ds --help |
|  |  |

**Persistent Volume Claim**

|  |  |
| --- | --- |
| help | kubectl get pvc -h *or* kubectl get pvc --help |
|  |  |

**Storage Class**

|  |  |
| --- | --- |
| help | kubectl get sc -h *or* kubectl get ds --help |
|  |  |

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| --- | --- |
| Run curl test temporarily | kubectl run --generator=run-pod/v1 --rm my busybox --image=yauritux/busybox-curl |
| Run wget test temporarily | kubectl run --generator=run-pod/v1 --rm mytest --image=busybox -it wget |
| Run nginx deployment with 2 replicas | kubectl run my-nginx --image=nginx --replicas=2 --port=80 |
| Run nginx pod and expose it | kubectl run my-nginx --restart=Never --image=nginx --port=80 --expose |
| Run nginx deployment and expose it | kubectl run my-nginx --image=nginx --port=80 –expose |
| List authenticated contexts | kubectl config get-contexts, ~/.kube/config |
| Set namespace preference | kubectl config set-context <context\_name> --namespace=<ns\_name> |
| List pods with nodes info | kubectl get pod -o wide |
| List everything | kubectl get all --all-namespaces |
| Get all services | kubectl get service --all-namespaces |
| Get all deployments | kubectl get deployments --all-namespaces |
| Show nodes with labels | kubectl get nodes --show-labels |
| Get resources with json output | kubectl get pods --all-namespaces -o json |
| Validate yaml file with dry run | kubectl create --dry-run --validate -f pod-dummy.yaml |
| Start a temporary pod for testing | kubectl run --rm -i -t --image=alpine test-$RANDOM -- sh |
| kubectl run shell command | kubectl exec -it mytest -- ls -l /etc/hosts |
| Get system conf via configmap | kubectl -n kube-system get cm kubeadm-config -o yaml |
| Get deployment yaml | kubectl -n denny-websites get deployment mysql -o yaml |
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Explain resource kubectl explain pods, kubectl explain svc

Watch pods kubectl get pods -n wordpress --watch

Query healthcheck endpoint curl -L http://127.0.0.1:10250/healthz

Open a bash terminal in a pod kubectl exec -it storage sh

Check pod environment variables kubectl exec redis-master-ft9ex env

Enable kubectl shell autocompletion echo "source <(kubectl completion bash)" »~/.bashrc, and reload

Use minikube dockerd in your laptop eval $(minikube docker-env), No need to push docker hub any more

Kubectl apply a folder of yaml files kubectl apply -R -f .

Get services sorted by name kubectl get services –sort-by=.metadata.name

Get pods sorted by restart count kubectl get pods –sort-by=’.status.containerStatuses[0].restartCount’

List pods and images kubectl get pods -o=’custom-columns=PODS:.metadata.name,Images:.spec.containers[\*].List all container images list-all-images.sh

kubeconfig skip tls verification skip-tls-verify.md

Ubuntu install kubectl "deb https://apt.kubernetes.io/ kubernetes-xenial main"